Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

Reserve
A99.9
F764

FOREST MANAGEMENT RESEARCH

BY THE

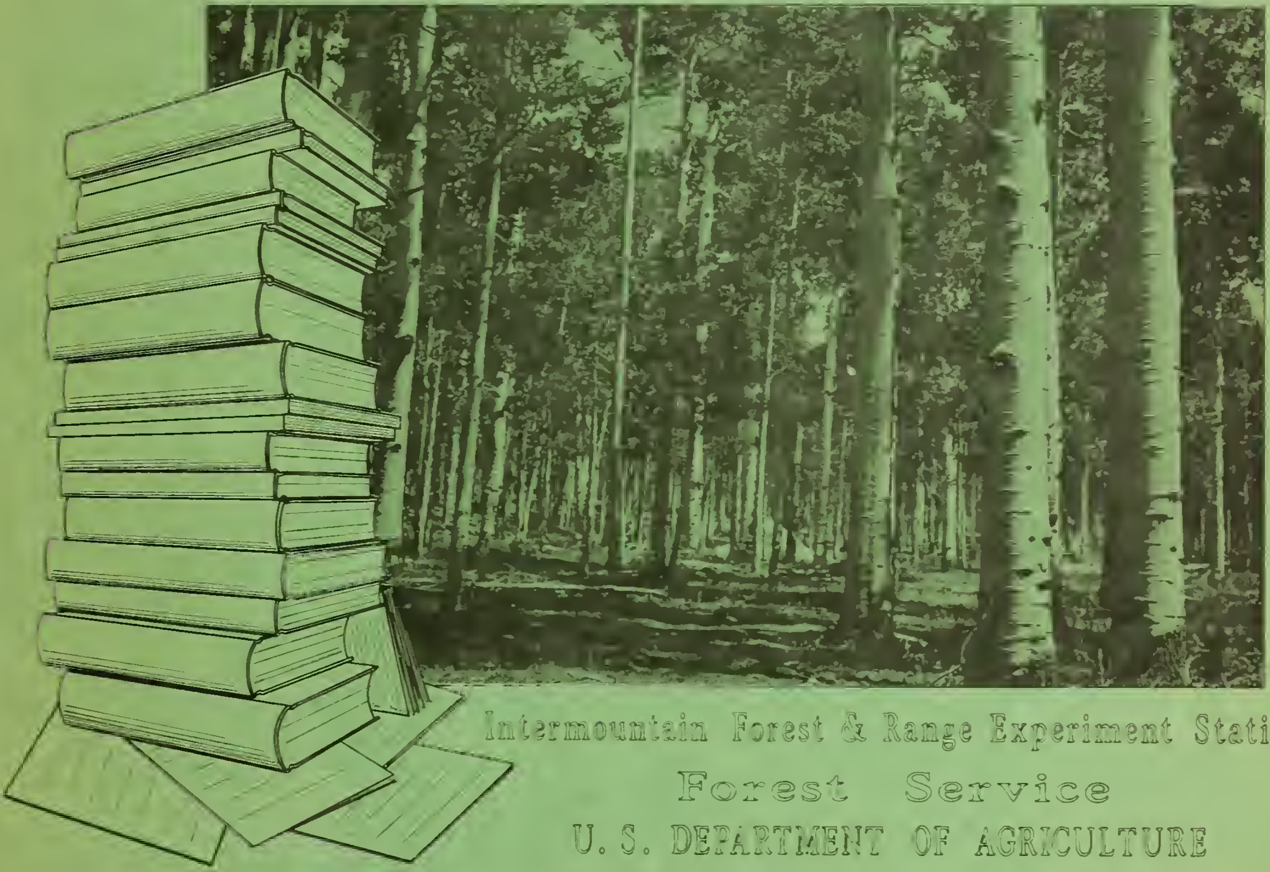
INTERMOUNTAIN & NORTHERN ROCKY MOUNTAIN STATIONS

A BIBLIOGRAPHY.

1912 THROUGH 1954

by

James D. Curtis



Intermountain Forest & Range Experiment Station
Forest Service
U. S. DEPARTMENT OF AGRICULTURE
Reed W. Bailey, Director

U. S. DEPT. OF AGRICULTURE
NATIONAL AGRICULTURAL LIBRARY
SEP 11 1970
CURRENT SERIAL RECORDS

Misc. Pub. No. 6

August, 1955

FOREST MANAGEMENT RESEARCH
BY THE
INTERMOUNTAIN AND NORTHERN ROCKY MOUNTAIN STATIONS

A BIBLIOGRAPHY

1912 Through 1954

By

James D. Curtis[1]

August 1955

---

[1] Forester, Intermountain Forest and Range Experiment Station
Ogden, Utah

FOREWORD

It was planned originally to compile a bibliography of all titles of the Forest Management Division of the Intermountain Station from the inception of research by the U. S. Forest Service in 1912. It was soon realized that this scheme would have its shortcomings because the work of some other divisions is so closely allied with forest management as to be inseparable. The following list, therefore, contains the publications of the Forest Management Division of the Station, together with selected references of other divisions, considered useful to research workers, teachers, students, and forest managers.

The initials INT or NRM after a particular series denote the source before consolidation of the Northern Rocky Mountain and Intermountain Forest and Range Experiment Stations. Initials are deleted for the new series which started with 1954.

An asterisk preceding a reference indicates that none is available for distribution.

Revisions of this bibliography will be made when the number of subsequent publications justify them.

FOREST MANAGEMENT RESEARCH IN THE INTERMOUNTAIN AND NORTHERN ROCKY MOUNTAIN REGIONS, A BIBLIOGRAPHY 1912 THROUGH 1954

By

James D. Curtis

ADAMS, LOWELL (1)

*The effects of deer on conifer reproduction in northwestern Montana. Jour. Forestry 47(11): 909-913. 1949.

__________ (2)

Consumption of ponderosa pine seed by small mammals. Research Note 80 (NRM), 4 pp. 1950 /Processed./

__________ (3)

*White-tailed deer browsing on ponderosa pine plantations. Research Note 89 (NRM), 5 pp. 1951. /Processed./

__________ (4)

White-tailed deer browsing on natural conifer seedlings. Research Note 105 (NRM), 3 pp. 1951. /Processed./

ANDERSON, I. V. (5)

*Western larch and Douglas-fir volume tables. West Coast Lumberman 58(11): 40. 1931.

__________ (6)

*Ponderosa pine volume table. West Coast Lumberman 59(5): 28. 1931.

__________ (7)

An economic tree classification for ponderosa pine. Applied Forestry Notes 64 (NRM), 19 pp. 1934. /Processed./

__________ (8)

*Application of selective logging to a ponderosa pine operation in western Montana. Univ. Mont. Bull. 339, 56 pp. 1934.

ANDERSON, I. V. (9)

*Clean cutting of ponderosa pine versus selective cutting. Jour. Forestry 32(8): 886. 1934.

________________ (10)

*Why selective cutting of ponderosa pine pays. The Timberman 35(11): 12-20. 1934.

________________ (11)

*Fire-scarred ponderosa pine--what is the loss? The Timberman 36(6): 14-15, 26, illus. 1934.

________________ (12)

*Memorandum report on a selective logging study of the Kinshella and Sons tie mill operation near Lupfer, Montana. 76 pp. 1936. /Processed./

________________ (13)

*Grading of logs and trees as a means of measuring quality. 23 pp. 1939. /Processed./

________________ (14)

*Trends in the utilization of pole species and their effect on forest management. Soc. Amer. Foresters Proc. 9 pp. 1947.

________________ (15)

Suitability of Rocky Mountain woods for veneer and plywood. Jour. Forestery 52(8): 587-591. 1954.

ANONYMOUS (16)

*Accelerated growth of western white pine after cutting. Applied Forestry Notes 4 (NRM), 2 pp., 1 table, illus. 1921. /Processed./

BAKER, F. S. (17)

*Aspen as a temporary forest type. Jour. Forestry 16(3): 294-303. 1918.

________________ (18)

*Aspen reproduction in relation to management. Jour. Forestry 16(4): 389-398. 1918.

BAKER, F. S. (19)

*Two races of aspen. Jour. Forestry 19(4): 412-413. 1921.

__________ (20)

*Aspen in the central Rocky Mountain region. U. S. Dept. Agr. Bull. 1291, 47 pp., illus. 1925.

__________ (21)

*Character of the soil in relation to the reproduction of western yellow pine. Jour. Forestry 23(7-8): 630-634. 1925.

BAKER, F. S., and C. F. KORSTIAN (22)

*Suitability of brush lands in the Intermountain region for the growth of natural or planted western yellow pine forest. U. S. Dept. Agr. Bull. 256, 83 pp., illus. 1931.

BAKER, F. S., C. F. KORSTIAN, and N. J. FETHEROLF (23)

*Snowshoe rabbits and conifers in the Wasatch Mountains of Utah. Ecology 2(4): 304-310, illus. 1921.

BAKER, F. S., and S. B. LOCKE (24)

*National forests of the Intermountain district. *In* Ecol. Soc. of Amer. Naturalist's Guide to the Americas, pp. 224-232. 1926.

BAKER, F. S., and OTHERS (25)

*What the national forests mean to the Intermountain region. U. S. Dept. Agr. Misc. Cir. 47, 21 pp., illus. (revised November 1930). 1925.

BINGHAM, R. T., A. E. SQUILLACE, and J. W. DUFFIELD (26)

*Breeding blister-rust-resistant western white pine. Jour. Forestry 51:163-168. 1953.

BLOOM, C. W. (27)

*A comparison of long-log and short-log scale. Applied Forestry Notes 68 (NRM), 3 pp. 1935. [Processed.]

BOE, K. N. (28)

Adjustment of regional volume tables for local conditions. 8 pp. 1949. [Processed.]

BOE, KENNETH N. (29)

Composition and stocking of the young stand 35 years after a selective cutting in ponderosa pine. Research Note 63 (NRM), 6 pp. 1948. [Processed.]

______________ (30)

*Is Douglas-fir replacing ponderosa pine in the cut-over stands in western Montana? Mont. Acad. Sci. Proc. 7 and 8: 42-50. 1948.

______________ (31)

Natural regeneration of lodgepole pine on seedbeds created by clear cutting and slash disposal. Research Note 99 (NRM), 1 p. 1951. [Processed.]

______________ (32)

Effects of slash disposal on lodgepole pine regeneration. Mont. Acad. Sci. Proc. 12: 27-33. 1952.

______________ (33)

Western larch and Douglas-fir seed dispersal into clear-cuttings. Research Note 129 (NRM), 3 pp. 1953. [Processed.]

______________ (34)

Periodicity of cone crops for five Montana conifers. Mont. Acad. Sci. Proc. 14: 5-9. 1954.

BRADNER, M., and PHILIP NEFF (35)

*Log scale versus lumber tally. (A discussion of overrun and the factors affecting it.) The Timberman 27(9): 46-48, 50-52. 1926.

BREWSTER, D. R. (36)

*An improved form of nursery seed bed frame. Forestry Quart. 14(2): 183-187. 1916.

BREWSTER, D. R. (37)

*Silvical research work in District 1. Forestry Kaimin. 3(1). School of Forestry, Mont. State Univ. 1917.

_______________ (38)

*Relation between height growth of larch seedlings and weather conditions. Jour. Forestry 16(8): 861-870. 1918.

BREWSTER, D. R., and J. A. LARSEN (39)

*Girdling as a means of removing undesirable tree species in the western white pine type. Jour. Agr. Res. 31(3): 267. 1925.

_______________ (40)

*Studies in western yellow pine nursery practice. Jour. Agr. Res. 31(12): 1101. 1925.

CLACK, JOHN H. (41)

*Slash disposal combined with logging in the stands of central Montana. Applied Forestry Notes 23 (NRM), 2 pp. 1922. /Processed./

CONNAUGHTON, C. A. (42)

*The effect of forest cover on snow melt. U. S. Forest Serv., Forest Worker 9(2): 9. 1933.

_______________ (43)

*Growth in virgin ponderosa pine stands of central Idaho. Jour. Forestry 33(1): 73-79. 1935.

_______________ (44)

The accumulation and rate of melting of snow as influenced by vegetation. Jour. Forestry 33(6): 564-569. 1935.

_______________ (45)

*Forest fires and accelerated erosion. Jour. Forestry 33(8): 751-752, illus. 1935.

_______________ (46)

*Fire damage in the ponderosa pine type in Idaho. Jour. Forestry 34(1): 46-51. 1936.

CONNAUGHTON, C. A. (47)

*Forests catch less snow than bare ground but are superior in regulating melting. Amer. Met. Soc. Bull. 17: 48-49. 1936.

CUMMINGS, L. J. (48)

*A cubic-foot volume alignment chart for western larch. Jour. Forestry 35(4): 415-417. 1937.

______________ (49)

*Larch--Douglas-fir board-foot yield tables. Applied Forestry Notes 78(NRM), 5 pp. 1937. /Processed./

______________ (50)

*The relationship of normal to average ponderosa pine stands of north Idaho. Jour. Forestry 39(1): 47. 1941.

CUMMINGS L. J., and P. D. KEMP (51)

Forest increment in North Idaho. Forest Survey Release 18 (NRM), 74 pp. 1940. /Processed./

CURTIS, JAMES D. (52)

Animals that eat ponderosa pine seed. Jour. Wildlife Mangt. 12(3): 327-328. 1948.

______________ (53)

Aspen: The utility timber crop of Utah. The Timberman 48(8): 56-57, 116. 1948.

______________ (54)

*Aspen's place in the sun. Amer. Forests 54(6): 264-265, 288. 1948.

______________ (55)

*Storehouse of beauty and utility--Utah's quaking aspen. Utah 10(9): 16-17, 29-30. 1948.

______________ (56)

*Two useful tools in forest research work. Jour. Forestry 48(3): 202. 1950.

CURTIS, JAMES D. (57)

Suggestions for techniques in reforestation in the Intermountain region. Research Paper 19 (INT), 3 pp. 1950. /Processed./

_______________ (58)

Stocking of logged ponderosa pine land in central Idaho. Research Paper 23 (INT), 15 pp., illus. 1950. /Processed./

_______________ (59)

*Destruction of paper tree tags by squirrels. Jour. Forestry 50(3): 220-221. 1952.

_______________ (60)

Response to release of ponderosa pine in central Idaho. Jour. Forestry 50(8): 608-610. 1952.

_______________ (61)

Effect of pregermination treatment on the viability of ceanothus seed. Ecology 33(4): 577-578. 1952.

CURTIS, JAMES D., and DAVID TACKLE (62)

Pulpwood moves east from the Targhee. The Timberman 55(9): 122-123. 1954.

CURTIS, JAMES D., and ALVIN K. WILSON (63)

*Porcupine feeding on ponderosa pine in central Idaho. Jour. Forestry 51(5): 339-341. 1953.

CUSHMAN, W. H., and R. H. WEIDMAN (64)

Survival increased by carefulness in field planting. Applied Forestry Notes 81 (NRM), 3 pp., tables. 1937. /Processed./

DAVIS, KENNETH P. (65)

*A method of determining spacing in thinning. Jour. Forestry 33(1): 80-81. 1935.

_______________ (66)

*Test of pruning equipment and methods in western white pine. Applied Forestry Notes 76 (NRM), 6 pp., illus. 1936. /Processed./

DAVIS, KENNETH P. (67)

*Weedings and thinnings in the western white pine forests. South. Idaho Forester 2(2): 28-31. 1938.

______________ (68)

*Economic aspects of managing western white pine forests. Northwest Sci. 14(2): 26-32. 1940.

______________ (69)

Economic management of western white pine forests. U. S. Dept. Agr. Tech. Bull. 830, 77 pp., illus., tables. 1942.

DAVIS, KENNETH P., and KARL A. KLEHM (70)

*Controlled burning in the western white pine type. Jour. Forestry 37(5): 399-407, illus. 1939.

DAVIS, KENNETH P., and VIRGIL D. MOSS (71)

*Blister rust control in the management of western white pine. Station Paper 3 (NRM), 34 pp., illus. 1940. [Processed.]

DIVISION OF FOREST MANAGEMENT RESEARCH (72)

Marking instructions for the white pine type in the northern Rocky Mountain region. 14 pp. 1947. [Processed.]

DIVISION OF FOREST PRODUCTS (73)

*Determining tree d.b.h. from stump measurements. Research Note 16 (NRM), 1 p., illus. 1941. [Processed.]

______________ (74)

Check list of the native and naturalized trees of Region One. 6 pp. 1944. [Processed.]

DIVISION OF SILVICS (75)

A guide to the Deception Creek Experimental Forest, Idaho (NRM) 10 pp. 1938. [Processed.]

DIVISION OF SILVICULTURE (76)

Growth after logging of larch--Douglas-fir stands in northwestern Montana. Applied Forestry Notes 79 (NRM), 4 pp. 1937. /Processed./

_______________ (77)

*Second-growth timber worth holding in the northern Rocky Mountain region. U. S. Dept. Agr. Leaflet, 8 pp., illus. 1929.

EHRLICH, JOHN (78)

*A preliminary study of root diseases in western white pine. Station Paper 1 (NRM), 10 pp., illus. 1939. /Processed./

ELLISON, LINCOLN (79)

*A natural seedling of western aspen. Jour. Forestry 41(10): 767-768, illus. 1943.

EVANKO, A. B. (80)

A test of borax control of goatweed. Research Note 134 (NRM), 5 pp. 1953. /Processed./

EVENDEN, JAMES C. (81)

*Bark beetles and the forest. Applied Forestry Notes 25 (NRM), 3 pp. 1922. /Processed./

_______________ (82)

*The spruce budworm in northern Idaho. Applied Forestry Notes 37 (NRM), 3 pp. 1923. /Processed./

_______________ (83)

An instance of insect damage resulting from zero-margin selective cutting of ponderosa pine. Applied Forestry Notes 84 (NRM), 4 pp., tables. 1938. /Processed./

FAHNESTOCK, GEORGE R. (84)

*Roofing slash piles can save--or lose--you dollars. U. S. Forest Serv., Fire Control Notes 15(3): 22-26. 1954.

FAHNESTOCK, GEORGE R. (85)

Cooperative logging slash research in the northern Rocky Mountains. Soc. Amer. Foresters Proc. 1954.

FAHNESTOCK, G. R., and C. A. WELLNER (86)

*Early effects of thinning pure ponderosa pine in western Montana. Research Note 3 (NRM), 3 pp., illus., tables, 1940. /Processed./

FINCH, THOMAS L. (87)

Effect of bark growth in measurement of periodic growth of individual trees. Research Note 60 (NRM), 3 pp. 1948. /Processed./

__________ (88)

How fast is timber growing in eastern Montana? Research Note 88 (NRM), 7 pp. 1951. /Processed./

FISHER, GEORGE M. (89)

*Comparative germination of tree species on various kinds of surface-soil material in the western white pine type. Ecology 16(4): 606-611. 1935.

FLINT, H. R. (90)

*The problem of slash disposal. Applied Forestry Notes 26 (NRM), 3 pp. 1922. /Processed./

__________ (91)

*Various aspects of the insect problem in the lodgepole pine region. Applied Forestry Notes 54 (NRM), 4 pp. 1924. /Processed./

__________ (92)

*Fire resistance of northern Rocky Mountain conifers. Applied Forestry Notes 61 (NRM), 5 pp. 1925. /Processed./

FOILES, MARVIN W. (93)

Recommendations for poisoning western hemlock. Research Note 77 (NRM), 2 pp. 1950. /Processed./

FOILES, MARVIN W. (94)

Results of poisoning western hemlock. Northwest Sci. XXV(1): 41-47. 1951.

_______________ (95)

Results of seeding germinated western white pine seed. Research Note 95 (NRM), 5 pp. 1951. /Processed./

_______________ (96)

*Test of seeding germinated western white pine seed. Tree Planters' Notes 8. pp. 10-11. 1951.

FOREST GENETICS STEERING COMMITTEE (97)

A guide for the selection of superior trees in the northern Rocky Mountains. Misc. Pub. 6 (NRM), 7 pp. 1952. /Processed./

GILL, LAKE S., CHARLES D. LEAPHART, and STUART R. ANDREWS (98)

*Preliminary results of inoculations with a species of Leptographium on western white pine. Forest Pathology Special Release 35, 14 pp., illus. U.S.D.A., B.P.I.S.A.E., Div. Forest Pathology. 1951.

GIRARD, JAMES W. (99)

*Can timber owners afford to leave the small trees? Applied Forestry Notes 19 (NRM), 4 pp. 1921. /Processed./

GIRARD, JAMES W., and W. C. LOWDERMILK (100)

*Investigations in slash disposal in the western yellow pine type. Applied Forestry Notes 29 (NRM), 8 pp. 1922. /Processed./

GISBORNE, H. T. (101)

*Cyclic fluctuations of rainfall in the northern Rocky Mountains. Amer. Met. Soc. Bull. pp. 131-132. 1925.

_______________ (102)

*Woodlands cut by the "selection method" less liable to fire damage. U. S. Dept. Agr. Yearbook, pp. 376-378. 1934.

GISBORNE, H. T. (103)

How the wind blows in the forest of northern Idaho. (NRM) 14 pp. 1941. /Processed./

______________ (104)

*Slash burns well at B. I. 10 to 20. Research Note 35 (NRM), 2 pp. 1944. /Processed./

______________ (105)

*Calculating precipitation probabilities. The Timberman, 49(10): 58, 60, 62, 64, 66. 1948.

HAIG, I. T. (106)

*The application of normal yield tables. Jour. Forestry 22(8): 902-906. 1924.

__________ (107)

*The work of blister rust control in the Northwest. Applied Forestry Notes 50 (NRM), 3 pp. 1924. /Processed./

__________ (108)

*Accelerated growth after cutting in western white pine. Applied Forestry Notes 55 (NRM), 5 pp. 1924. /Processed./

__________ (109)

*Short cuts in measuring tree heights. Jour. Forestry 23(11): 941-944. 1925.

__________ (110)

*The effect of slash disposal on subsequent reproduction. Applied Forestry Notes 60 (NRM), 3 pp. 1925. /Processed./

__________ (111)

*Accuracy of quadrat sampling in studying forest reproduction on cut-over areas. Ecology 10(4): 374-381. 1929.

__________ (112)

*Colloidal content and related soil factors as indicators of site quality. Yale Univ. School of Forestry Bull. 24, 33 pp. 1929.

HAIG, I. T. (113)

*A quarter century of silviculture in the western white pine type. Forestry Kaimin, pp. 36-41. 1930.

__________ (114)

*Stand tables for second-growth western white pine. Northwest Sci. 5(4): 94-98. 1931.

__________ (115)

*The stocked-quadrat method of sampling reproduction stands. Jour. Forestry 29(5): 747-749. 1931.

__________ (116)

*Review: Forest types of the northern Rocky Mountains and their climatic controls. (By J. A. Larsen) Jour. Forestry 29(7): 1104-1106. 1931.

__________ (117)

*Comparative timber yields. Jour. Forestry 30(5): 575-578. 1932.

__________ (118)

*Premature germination of forest tree seed during natural storage in duff. Ecology 8(3): 311-312. 1932.

__________ (119)

*Second-growth yield, stand and volume tables for the western white pine type. U. S. Dept. Agr. Tech. Bull. 323, 68 pp. 1932.

__________ (120)

*Treatment of understory hemlock in the western white pine type. Jour. Forestry 31(5): 578-583. 1933.

__________ (121)

*Factors controlling initial establishment of western white pine and associated species. Yale Univ. School of Forestry Bull. 41, 149 pp., illus., tables. 1936.

HAIG, I. T., K. P. DAVIS, and R. H. WEIDMAN (122)

Natural regeneration in the western white pine type. U. S. Dept. Agr. Tech. Bull. 767, 99 pp., illus. 1941.

HELMERS, AUSTIN E. (123)

Effect of pruning on growth of western white pine. Jour. Forestry 44(9): 673-676. 1946.

_______________ (124)

How heavily should white pine be pruned? Research Note 41 (NRM), 5 pp., illus. 1946. /Processed./

_______________ (125)

Fifth-year results of direct seeding with western redcedar and Engelmann spruce. Research Note 42 (NRM), 4 pp. 1946. /Processed./

_______________ (126)

Direct seeding western white pine - fifth-year results. Research Note 44 (NRM), 5 pp., tables. 1946. /Processed./

_______________ (127)

Pruning wound healing on western white and ponderosa pines. Research Note 45 (NRM), 6 pp., illus. 1946. /Processed./

_______________ (128)

Results of direct seeding ponderosa pine. Research Note 46 (NRM), 5 pp. 1946. /Processed./

_______________ (129)

Disintegration of girdled hemlock trees. Station Paper 17 (NRM), 14 pp. 1948. /Processed./

_______________ (130)

Early results from thinning seed spots. Research Note 58 (NRM), 5 pp. 1948. /Processed./

HUBERMAN, M. A. (131)

*The role of western white pine in forest succession in northern Idaho. Ecology 16(2): 137-151. 1935.

HUEY, BEN M. (132)

The profit in pruning western white and ponderosa pine. Research Note 85 (NRM), 6 pp. 1950. /Processed./

HUEY, BEN M., and S. BLAIR HUTCHISON (133)

Marketing Montana Christmas trees. Published by School of Forestry, Mont. State Univ. Bull. 2, 24 pp., illus. 1949.

HUTCHISON, S. BLAIR, and BEN M. HUEY (134)

*Suggested Montana Douglas-fir Christmas tree standards. Station Paper 18 (NRM), 13 pp. 1949. /Processed./

HUTTON, GORDON A. (135)

*Timber mortality--a loss to Montana's economy. Mont. Acad. Sci. Proc. 13: 79-82. 1953.

JOHNSON, PHILIP C. (136)

Logging damage affects bark beetle resistance of residual ponderosa pine stands. Research Note 6, 4 pp., illus. 1954. /Processed./

KEMP, P. D., and M. E. METCALF (137)

Tables for approximating volume growth of individual trees. Station Paper 11 (NRM), 14 pp., tables. 1948. /Processed./

KEMPFF, GERHARD (138)

*Some results of winter slash disposal. Applied Forestry Notes 41 (NRM), 3 pp. 1923. /Processed./

__________ (139)

*Some results of winter slash disposal. The Timberman 25(10): 146. Pulp & Paper Mag. of Canada 22(40): 1026-1027. 1924.

__________ (140)

*Nonindigenous western yellow pine plantations in northern Idaho. Northwest Sci. II(2): 54-58. 1928.

KITCHIN, PAUL C. (141)

*Preliminary report on chemical weed control in coniferous nurseries. Jour. Forestry 18(2): 157-159. 1920.

KORSTIAN, C. F. (142)

*Effect of thinning and pruning on diameter growth of western yellow pine. Jour. Forestry 18(3): 304-305. 1920.

(143)

____

*Evaporation and soil moisture in relation to forest planting. Utah Acad. Sci., Arts and Letters Proc. 2: 116-117. 1921.

(144)

____

*Making the forests of Utah a permanent resource. Utah Acad. Sci., Arts and Letters Proc. 2: 178-182. 1921.

(145)

____

*Relation of precipitation to height growth of forest tree saplings. Utah Acad. Sci., Arts and Letters Proc. 2: 259-266. 1921.

(146)

____

*Effect of a late spring frost upon forest vegetation in the Wasatch Mountains of Utah. Ecology 2(1): 47-52, illus. 1921.

(147)

____

*Control of snow molding in coniferous nursery stock. Jour. Agr. Res. 24(9): 741-748, illus. 1923.

(148)

____

*A silvical comparison of the Pacific Coast and Rocky Mountain forms of western yellow pine. Amer. Jour. Bot. 11: 318-324. 1924.

(149)

____

*Density of cell sap in relation to environmental conditions in the Wasatch Mountains of Utah. Jour. Agr. Res. 28(9): 845-907, illus. 1924.

(150)

____

*Growth on cut-over and virgin western yellow pine lands in central Idaho. Jour. Agr. Res. 28(11): 1139-1148, illus. 1924.

(151)

____

*Coincidence between the ranges of western yellow pine, bark beetles, and mistletoe. Science 61: 448. 1925.

KORSTIAN, C. F., and F. S. BAKER (152)

*Is Douglas-fir replacing western yellow pine in central Idaho? Jour. Forestry 20(7): 755-764. 1922.

______________ (153)

*Forest planting in the Intermountain region. U. S. Dept. Agr. Bull. 1264, 56 pp., illus. 1925.

KORSTIAN, C. F., and N. J. FETHEROLF (154)

*Control of stem girdle of spruce transplants caused by excessive heat. Phytopathology 11: 485-490, illus. 1921.

KORSTIAN, C. F., and W. H. LONG (155)

*The western yellow pine mistletoe: Effect on growth and suggestions for control. U. S. Dept. Agr. Bull. 1112, 36 pp., illus. 1922.

KORSTIAN, C. F., and OTHERS (156)

*A chlorosis of conifers corrected by spraying with ferrous sulphate. Jour. Agr. Res. 21(3): 153-171. 1921.

LARSEN, J. A. (157)

*Seed testing with the Jacobsen germinating apparatus at the Danish seed control station. Forestry Quart. 14(2): 273-276. 1916.

______________ (158)

*Silvical notes on western larch. Soc. Amer. Foresters Proc. 11(4): 434-440. 1916.

______________ (159)

*Comparison of seed testing in sand and in the Jacobsen germinator. Jour. Forestry 16(6): 690-695. 1918.

______________ (160)

*Growth of western white pine and associated species in northern Idaho. Jour. Forestry 16(7): 839-840. 1918.

______________ (161)

*Germination from seed in the duff in western white pine stands. Applied Forestry Notes 1-a (NRM), 2 pp. [n.d.] [Processed.]

LARSEN, J. A. (162)

*Effect of cutting on site factors. Applied Forestry Notes 1-c (NRM), 2 pp. 1920. /Processed./

_______________ (163)

*Germinations of seed in the duff under western white pine stands. Applied Forestry Notes 22 (NRM), 3 pp. 1921. /Processed./

_______________ (164)

*Periodic fluctuation of precipitation in the Pacific Northwest. Idaho Farmer. 1921.

_______________ (165)

*Effect of removal of the virgin white pine stand upon the physical factors of site. Ecology 3(4): 302-305. 1922.

_______________ (166)

*Some characteristics of seeds of coniferous trees from the Pacific Northwest. The Natl. Nurseryman 30(9): 146-149. 1922.

_______________ (167)

*Reasons for lack of hardwoods in West. The Timberman 23(9): 126. 1922.

_______________ (168)

*Why hardwoods do not grow naturally in the West. Idaho Forester, 4: 28-32. (Excerpt in Monthly Wea. Rev. 52(4): 218. 1924.) 1922.

_______________ (169)

*Another thought on slash disposal in western white pine stands. Applied Forestry Notes 36 (NRM), 2 pp. 1923. /Processed./

_______________ (170)

*Association of trees, shrubs, and other vegetation in northern Idaho forests. Ecology 4(1): 63-67. 1923.

_______________ (171)

*Natural reproduction on single and double burns in northern Idaho. Applied Forestry Notes 52 (NRM), 3 pp. 1924. /Processed./

LARSEN, J. A. (172)

*Some factors affecting reproduction after logging in northern Idaho. Jour. Agr. Res. 28(11): 1149-1157. 1924.

__________ (173)

*Waste land turned into forests. Amer. Scandinavian Rev. 12(9): 543-548. 1924.

__________ (174)

*Methods of stimulating germination of western white pine seed. Jour. Agr. Res. 31(9): 889. 1925.

__________ (175)

*Natural reproduction after forest fires in northern Idaho. Jour. Agr. Res. 31(12): 1177-1197. 1925.

__________ (176)

*The relation of leaf structure of conifers to light and moisture. Ecology 8(3): 371-377. 1927.

__________ (177)

*Fires and forest succession in the Bitterroot Mountains of northern Idaho. Ecology 10(1): 67-76. 1929.

__________ (178)

*Forest types of the northern Rocky Mountains and their climatic controls. Ecology 11(4): 631-672. 1930.

__________ (179)

*Site factor variations and responses in temporary forest types in northern Idaho. Ecol. Monog. 10: 1-54. 1940.

LARSEN, J. A., and W. C. LOWDERMILK (180)

*Slash disposal in pine forests of Idaho. West Coast Lumberman 47(553): 50, 59-63, 75. 1924.

____________________ (181)

*Slash disposal in western white pine forests in Idaho. U. S. Dept. Agr. Cir. 292, 20 pp., illus. 1924.

LARSEN, J. A., and R. J. SMITH (182)

*Concerning seed spots. Forestry Quart. 11: 67. 1913.

LeBARRON, RUSSELL K. (183)

*Cutting lodgepole pine in the northern Rocky Mountains. Soc. Amer. Foresters Proc. pp. 399-403. 1948.

_______________ (184)

Review of published information on the larch--Douglas-fir type. Station Paper 15 (NRM), 15 pp. 1948. /Processed./

_______________ (185)

Slash disposal by spot burning and dozer piling in ponderosa pine type. Paper presented at meeting of North. Rocky Mountain Forest and Range Expt. Sta. Section, S.A.F., Missoula, Mont. 9 pp. 1948. /Processed./

_______________ (186)

*Silvicultural possibilities of fire in northeastern Washington. Unpub. ms., 14 pp., typewritten. Paper presented at meeting of Ecological Society of America, Vancouver, B. C. 1949.

_______________ (187)

Silvicultural practices for lodgepole pine in Montana. Station Paper 33 (NRM), 19 pp. 1952. /Processed./

LeBARRON, RUSSELL K., and GEORGE M. JEMISON (188)

Ecology and silviculture of the Engelmann spruce-alpine fir type. Jour. Forestry 51(5): 349-355. 1953.

LOWDERMILK, W. C. (189)

*Marking. Applied Forestry Notes 1-b (NRM), 2 pp. 1920. /Processed./

_______________ (190)

*Does western larch recover? Applied Forestry Notes 1-d (NRM), 1 p. 1920. /Processed./

_______________ (191)

*Volume reserves in forest management. Applied Forestry Notes 2 (NRM), 2 pp. 1920. /Processed./

_______________ (192)

*Seed. Applied Forestry Notes 12 (NRM), 2 pp. 1921. /Processed./

LOWDERMILK, W. C. (193)

*The problem of the unmerchantable trees in the white pine stands. Applied Forestry Notes 13 (NRM), 4 pp. 1921. /Processed./

______________ (194)

*A unit of area as a unit of restocking. Applied Forestry Notes 17 (NRM), 3 pp. 1921. /Processed./

______________ (195)

*Swamper slash piling. Applied Forestry Notes 20 (NRM), 3 pp. 1921. /Processed./

______________ (196)

*"Selective burning" of slash. Applied Forestry Notes 21 (NRM), 3 pp. 1921. /Processed./

______________ (197)

*Seed production of lodgepole pine (Pinus contorta, Loudon). Applied Forestry Notes 27 (NRM), 2 pp. 1922. /Processed./

______________ (198)

*Winter slash disposal on the Kaniksu National Forest. Applied Forestry Notes 28 (NRM), 4 pp. 1922. /Processed./

______________ (199)

*Disposal of slash on slopes. Applied Forestry Notes 31 (NRM), 7 pp. 1922. /Processed./

______________ (200)

*An outline of slash disposal practice in district one. Applied Forestry Notes 32 (NRM), 5 pp. 1922. /Processed./

______________ (201)

*Factors affecting reproduction of Engelmann spruce. Jour. Agr. Res. 30(11): 995-1009. 1925.

LYNCH, DONALD W. (202)

Diameter growth of ponderosa pine in relation to the Spokane pine blight problem. Northwest Sci. 25(4): 157-163. 1951.

LYNCH, DONALD W. (203)

Forest tree planting in the Inland Empire. Misc. Pub. No. 5 (NRM), 22 pp. 1952. /Processed./

________ (204)

*Money grows in old pine woods. Wash. Farmer. 1953.

________ (205)

Logging damage increases under heavy cutting of second-growth ponderosa pine. Research Note 121 (NRM), 3 pp. 1953. /Processed./

________ (206)

Growth of ponderosa pine on best sites. Research Note 128 (NRM), 4 pp. 1953. /Processed./

________ (207)

*Heavy cutting hurts residual stand. The Lumberman 81(2): 105. 1954.

________ (208)

Growth of young ponderosa pine stands in the Inland Empire. Research Paper 36, 16 pp. 1954. /Processed./

________ (209)

What is an acceptable allowable error and sample size in sample log scaling and tree measuring? Research Note 14, 5 pp. 1954. /Processed./

LYNCH, DONALD W., and ROY A. CHAPMAN (210)

Sampling in tree measurement sales on northern region national forests. Station Paper 27 (NRM), 47 pp. 1951. /Processed./

McKEEVER, D. G. (211)

*Direct seeding of western white pine using poisons for rodent control. Research Note 18 (NRM), 5 pp., tables. 1942. /Processed./

________ (212)

Results of direct seeding of ponderosa pine in the northern Rocky Mountain region. Research Note 20 (NRM), 6 pp., tables. 1942. /Processed./

McKEEVER, D. G. (213)

Results of direct seeding of western redcedar and Engelmann spruce in the northern Rocky Mountain region. Research Note 21 (NRM), 9 pp., tables. 1942. /Processed./

MAKI, T. E. (214)

*The forests of the Intermountain region. South. Idaho Forester 2(2): 16-20. 1938.

__________ (215)

*Significance and applicability of seed maturity indices for ponderosa pine. Jour. Forestry 38(1): 55-60. 1940.

MARSHALL, ROBERT (216)

*Influence of precipitation cycles on forestry. Jour. Forestry 25(4): 415-429. 1927.

__________ (217)

*The life history of some western pine stands on the Kaniksu National Forest. Northwest Sci. 2(2): 48-53. 1928.

__________ (218)

*The girdled pine still lives. American Forests & Forest Life 35(1): 29, 41. 1929.

__________ (219)

*An experimental study of the water relations of seedling conifers with special reference to wilting. Ecol. Monog. 1(1): 39-98. 1931.

MARSHALL, ROBERT, and CLARENCE AVERILL (220)

*Soil alkalinity on recent burns. Ecology 9(4): 533. 1928.

MATTHEWS, DONALD N., and S. BLAIR HUTCHISON (221)

Development of a blister rust control policy for the national forests in the Inland Empire. Station Paper 16 (NRM), 116 pp., illus. 1948.

METCALF, MELVIN E. (222)

Importance and causes of timber mortality in eastern Montana forests. Research Note 93 (NRM), 4 pp. 1951. [Processed.]

MIELKE, J. L. (223)

Rate of deterioration of beetle-killed Engelmann spruce. Jour. Forestry 48(12): 882-888. 1950.

—————— (224)

The rust fungus *Cronartium filamentosum* in Rocky Mountain ponderosa pine. Jour. Forestry 50(5): 365-373. 1952.

MIELKE, J. L., T. W. CHILDS, and H. G. LACHMUND (225)

*Susceptibility to *Cronartium ribicola* of the four principal ribes species found within the commercial range of *Pinus monticola*. Jour. Agr. Res. 55(5): 317-346, illus. 1937.

✓ MOSS, V. D., and C. A. WELLNER (226)

Aiding blister rust control by silvicultural measures in the western white pine type. U. S. Dept. Agr. Cir. 919, 31 pp. 1953.

MOWAT, EDWIN L. (227)

Damage by logging and slash disposal in Idaho ponderosa pine. Jour. Forestry 38(3): 247-255. 1940.

MUELLER, LINCOLN A. (228)

*Utilization of the secondary species in the Inland Empire. Jour. Forestry 44(11): 861-865. 1946.

OLSON, D. S. (229)

*A method of reporting on forest plantations. Applied Forestry Notes 18(NRM), 4 pp. 1921. [Processed.]

—————— (230)

*Forest planting in Montana and northern Idaho. Applied Forestry Notes 40 (NRM), 3 pp. 1923. [Processed.]

ORR, LESLIE W. (231)

The 1953 pine butterfly outbreak in southern Idaho and plans for its control in 1954. Misc. Pub. 1, 12 pp., illus. 1954. /Processed./

PETERSON, ROALD A. (232)

Comparative effect of seed treatments upon seedling emergence in seven browse species. Ecology 34(4): 778-785. 1953.

POLE BLIGHT INVESTIGATIONS STEERING COMMITTEE (233)

Pole blight -- what is known about it. Misc. Pub. No. 4 (NRM), 17 pp. 1952. /Processed./

POLK, R. BROOKS, and KENNETH N. BOE (234)

*Succession of trees in cut-over larch--Douglas-fir stands in western Montana. Mont. Acad. Sci. Proc. 10: 31-37. 1951.

RAPRAEGER, E. F. (235)

*Possibilities of partial cutting in young western white pine. Station Paper 2 (NRM), 19 pp. 1940. /Processed./

__________ (236)

*Some facts about knots - how they are formed. The Timberman 39(10): 16-18. 1938.

__________ (237)

*Development of branches and knots in western white pine. Jour. Forestry 37(3): 239-245. 1939.

__________ (238)

*What percent of tree volume is in each log of a western (Idaho) white pine? West Coast Lumberman 63(8): 30. Applied Forestry Notes 75 (NRM), 2 pp. 1936. /Processed./

__________ (239)

*Isn't cubic measure logical? Wash. Univ. Forest Club Quart. 11(2): 22-24. 1938.

__________ (240)

*Relation of tree size in western white pine to log making costs. Applied Forestry Notes 74 (NRM), 3 pp. 1936. /Processed./

RAPRAEGER, E. F. (241)

*The cubic foot as a national log scaling standard. Station Paper 24 (NRM), 25 pp. 1950. /Processed./

ROCKWELL, F. I. (242)

*Basis of classification into forest types and its application to District 1. Soc. Amer. Foresters Proc. 8(2): 85. 1912-13.

ROE, ARTHUR L. (243)

The growth rate of selectively cut ponderosa pine in western Montana. Research Note 55 (NRM), 4 pp. 1947. /Processed./

________ (244)

*What is the right cutting cycle for ponderosa pine? Research Note 57 (NRM), 3 pp., illus. 1947. /Processed./

________ (245)

*Growth of a selectively-cut stand of ponderosa pine in western Montana. Mont. Acad. Sci. Proc. 7 and 8: 15-23. 1948.

________ (246)

A preliminary classification of tree vigor for western larch and Douglas-fir trees in western Montana. Research Note 66 (NRM), 6 pp. 1948. /Processed./

________ (247)

Thirty-nine years' growth in a cut-over larch stand. Research Note 70 (NRM), 6 pp. 1948. /Processed./

________ (248)

Response of western larch and Douglas-fir to logging release in western Montana. Northwest Sci. XXIV(3): 99-104. 1950.

________ (249)

Growth tables for cut-over larch--Douglas-fir stands in the Upper Columbia Basin. Station Paper 30 (NRM), 24 pp. 1951. /Processed./

ROE, ARTHUR L. (250)

Growth tables for selectively-cut ponderosa pine in western Montana. Station Paper 32 (NRM), 18 pp. 1951. /Processed./

__________ (251)

Growth of selectively cut ponderosa pine stands in the Upper Columbia Basin. U. S. Dept. Agr. Handbook No. 39, 28 pp. 1952.

__________ (252)

Larch--Douglas-fir regeneration studies in Montana. Northwest Sci. 26(3): 95-102. 1952.

ROE, ARTHUR L., and KENNETH N. BOE (253)

Spot seeding on a broadcast burned lodgepole pine clear cutting. Research Note 108 (NRM), 2 pp. 1952. /Processed./

____________________ (254)

Bibliography of ponderosa pine. Station Paper 22 (NRM), 74 pp. 1950. /Processed./

ROE, ARTHUR L., and S. BLAIR HUTCHISON (255)

*Montana's Christmas tree producing industry. Lake States Timber Digest. pp. 6-7. 1953.

ROE, ARTHUR L., and A. E. SQUILLACE (256)

Can we induce prompt regeneration in selectively-cut ponderosa pine stands? Research Note 81 (NRM), 7 pp. 1950. /Processed./

____________________ (257)

Effect of cutting methods on logging costs in larch--Douglas-fir. Jour. Forestry 51(11): 799-802. 1953.

ROGERS, E. C. (258)

*Studies in retarded germination. Jour. Forestry 19(1): 51-57. 1921.

SAMPSON, A. W. (259)

*The stability of aspen as a type. Soc. Amer. Foresters Proc. 11(1): 86-87. 1916.

____________ (260)

*Effect of grazing upon aspen reproduction. U. S. Dept. Agr. Bull. 741, 29 pp., illus. 1919.

SCHOPMEYER, C. S. (261)

Brushfield reforestation in the St. Joe National Forest, Idaho. Applied Forestry Notes 83 (NRM), 3 pp., illus. 1938. /Processed./

____________ (262)

Direct seeding in the western white pine type. Applied Forestry Notes 90 (NRM), 10 pp., illus., tables. 1939. /Processed./

____________ (263)

*Survival in forest plantations in the northern Rocky Mountain region. Jour. Forestry 38(1): 16-24. 1939.

____________ (264)

*Successful forestation by direct seeding using poisons for rodent control. Research Note 1 (NRM), 5 pp., illus., tables. 1940. /Processed./

____________ (265)

*The use of western redcedar in reforestation by direct seeding. Research Note 5 (NRM), 4 pp. 1940. /Processed./

____________ (266)

*Second-year results of direct-seeding experiments in western white pine type using screens for rodent control. Research Note 6 (NRM), 7 pp., tables. 1940. /Processed./

SCHOPMEYER, C. S., and A. E. HELMERS (267)

Seeding as a means of reforestation in the northern Rocky Mountain region. U. S. Dept. Agr. Cir. 772, 31 pp., illus. 1947.

SHAW, CHARLES GARDNER, and OTHERS (268)

•Fluorine injury to ponderosa pine: a summary. Northwest Sci. 25(4): 156. 1951.

SPARHAWK, W. N. (269)

•Effect of grazing upon western yellow pine reproduction in central Idaho. U. S. Dept. Agr. Bull. 738, 31 pp., illus. 1918.

SQUILLACE, A. E. (270)

Opportunities for forest genetics research in the northern Rocky Mountain region. Mont. Acad. Sci. Proc. 11: 3-7. 1952.

________________ (271)

Effect of squirrels on the supply of ponderosa pine seed. Research Note 131 (NRM), 4 pp. 1953. /Processed./

________________ (272)

Engelmann spruce seed dispersal into a clear-cut area. Research Note 11, 4 pp., illus. 1954. /Processed./

SQUILLACE, A. E., and LOWELL ADAMS (273)

Dispersal and survival of seed in a partially-cut ponderosa pine stand. Research Note 79 (NRM), 4 pp. 1950. /Processed./

SQUILLACE, A. E., and R. T. BINGHAM (274)

Breeding for improved growth rate and timber quality in western white pine. Jour. Forestry 52 (9): 656-661. 1954.

__________________________________ (275)

Forest genetics research in the northern Rocky Mountain region. Jour. Forestry 52(9): 691-692. 1954.

STILLINGER, C. R. (276)

•White pine blister rust in the West. Applied Forestry Notes 39 (NRM), 5 pp. 1923. /Processed./

TACKLE, DAVID (277)

Lodgepole pine management in the Intermountain region--a problem analysis. Misc. Pub. 2, 53 pp., illus. 1954. [Processed.]

________________ (278)

Comments on the Baker automatic tree seed planter. Jour. Forestry 52(7): 530-531. 1954.

________________ (279)

Viability of lodgepole pine seed after natural storage in slash. Research Note 8, 3 pp. 1954. [Processed.]

TACKLE, DAVID, and D. I. CROSSLEY (280)

Lodgepole pine bibliography. Research Paper 30 (INT), 57 pp. 1953. [Processed.]

THOMPSON, J. O. (281)

*Yellow pine silvicultural practice on the Custer National Forest. Applied Forestry Notes 47 (NRM), 2 pp. 1924. [Processed.]

THOMPSON, KENNETH, and LOWELL ADAMS (282)

*Use statistics in wildlife research. Pittman-Robertson Quart. 10(4): 526-530. 1950.

TRIPP, NORMAN R., and G. R. TRIMBLE, JR. (283)

*Some effects of fire and cutting on forest soils in the lodgepole pine forests of the northern Rocky Mountains. Jour. Forestry 47(8): 640-642. 1949.

WAHLENBERG, W. G. (284)

*Weed eradication. Applied Forestry Notes 3 (NRM), 2 pp. 1921. [Processed.]

________________ (285)

*Chemical weed eradication in forest nurseries. Applied Forestry Notes 14 (NRM), 2 pp. 1921. [Processed.]

________________ (286)

*The results of sowing in the northern Rocky Mountain region. Applied Forestry Notes 43 (NRM), 3 pp. 1924. [Processed.]

WAHLENBERG, W. G. (287)

*Stimulating the growth of Engelmann spruce in the nursery. Applied Forestry Notes 45 (NRM), 3 pp. 1924. /Processed./

———————— (288)

*Overcoming delayed germination in the nursery. Applied Forestry Notes 53 (NRM), 2 pp. 1924. /Processed./

———————— (289)

*Fall sowing and delayed germination of western white pine seed. Jour. Agr. Res. 28(11): 1127. 1924.

———————— (290)

*Circumventing delayed germination in the nursery. Jour. Forestry 22: 574-575. 1924.

———————— (291)

*Chemical weed control at the Savenac Nursery. Applied Forestry Notes 57 (NRM), 4 pp. 1925. /Processed./

———————— (292)

*Forestation research in Montana and North Idaho. Jour. Forestry 23(7-8): 589-599. 1925.

———————— (293)

*Sowing and planting season for western yellow pine. Jour. Agr. Res. 30(3): 245. 1925.

———————— (294)

*Reforestation by seed sowing in the northern Rocky Mountains. Jour. Agr. Res. 30(7): 637. 1925.

———————— (295)

*Age classes of western white pine planting stock in relation to aspect of planting site in northern Idaho. Jour. Agr. Res. 33(7): 611. 1926.

———————— (296)

*How to establish a windbreak in Montana. The Mont. Farmer 13(22). 1926.

———————— (297)

*Western larch nursery practice. Jour. Agr. Res. 33(3): 293. 1926.

WAHLENBERG, W. G. (298)

*Planting pine among brush. The Timberman 28(5): 58-59. 1927.

_______________ (299)

*Experiments with classes of stock suitable for forest planting in the northern Rocky Mountains. Jour. Agr. Res. 36(12): 977. 1928.

_______________ (300)

*Relation of quantity of seed sown and density of seedlings to the development and survival of forest planting stock. Jour. Agr. Res. 38(4): 219-227. 1929.

_______________ (301)

*Modification of western yellow pine root systems by fertilizing the soil at different depths in the nursery. Jour. Agr. Res. 39(2): 137. 1929.

_______________ (302)

*Effect of ceanothus brush on western yellow pine plantations in the northern Rocky Mountains. Jour. Agr. Res. 41(8): 601-612. 1930.

_______________ (303)

*Experiments in the use of fertilizers in growing forest planting material at the Savenac Nursery. U. S. Dept. Agr. Cir. 125, 38 pp., illus. 1930.

_______________ (304)

*Investigations in weed control by zinc sulphate and other chemicals at the Savenac Forest Nursery. U. S. Dept. Agr. Tech. Bull. 156, 35 pp., illus. 1930.

WARNER, J. D. (305)

*The recovery of western larch. Applied Forestry Notes 5 (NRM), 2 pp. 1921.

WATT, RICHARD F. (306)

Approach toward normal stocking in western white pine stands. Northwest Sci. XXIV(4): 149-157. 1950.

_______________ (307)

Growth in understocked and overstocked western white pine stands. Research Note 78 (NRM), 3 pp. 1950. [Processed.]

WATT, RICHARD F. (308)

Snow damage in a pole stand of western white pine. Research Note 92, (NRM), 4 pp. 1951. /Processed./

__________ (309)

Western white pine stands show irregular growth pattern. Research Note 113, (NRM), 1 p. 1952. /Processed./

__________ (310)

Site index changes in western white pine forests. Research Note 132 (NRM), 2 pp. 1953. /Processed./

__________ (311)

Mortality in second-growth stands of the western white pine type. Research Note 9, 5 pp. 1954. /Processed./

WEIDMAN, R. H. (312)

*Forest succession as a basis of the silviculture of western yellow pine. Jour. Forestry 19(8): 877-885. 1921.

__________ (313)

*Logging methods that will promote a new crop of timber in the western yellow pine region. The Forest Patrolman 2(5): 3-4. 1921.

__________ (314)

*Intensive management on a demonstration forest. Applied Forestry Notes 35 (NRM), 3 pp. 1922. /Processed./

__________ (315)

*What forestry steps are practicable in logging western yellow pine in the Northwest. Applied Forestry Notes 44 (NRM), 5 pp. 1924. /Processed./

__________ (316)

*Preliminary results of the western white pine yield study. Applied Forestry Notes 49 (NRM), 3 pp. 1924. /Processed./

__________ (317)

*Ten years' trial of some introduced species at Priest River Experiment Station. Applied Forestry Notes 56 (NRM), 3 pp. 1925. /Processed./

WEIDMAN, R. H. (318)

*Some principles to guide the marking axe in western yellow pine in the Northwest. The Idaho Forester VIII: 8. 1926.

——————— (319)

*Prolific seed production in the forests of northern Idaho. Northwest Sci. 1(4): 79-80. 1927.

——————— (320)

*Timber growing and logging practice in ponderosa pine in the Northwest. U. S. Dept. Agr. Tech. Bull. 511, 91 pp., illus. 1936.

——————— (321)

*Evidences of racial influence in a 25-year test of ponderosa pine. Jour. Agr. Res. 59(12): 855-888. 1939.

WEIR, JAMES R. (322)

*Note on the pathological effects of blazing trees. Applied Forestry Notes 24 (NRM), 2 pp. 1922. [Processed.]

WELLNER, C. A. (323)

*Effects of cleaning in a reproduction stand of western white pine and associates. Research Note 4 (NRM),4 pp., illus. 1940. [Processed.]

——————— (324)

*Relationships between three measures of stocking in natural reproduction of the western white pine type. Jour. Forestry 38(8): 636-638. 1940.

——————— (325)

*Blister rust control in relation to white pine silviculture. Idaho Forester, 23: 13-14. 1941.

——————— (326)

Estimating light intensity in residual stands in advance of cutting. Research Note 47 (NRM), 4 pp., tables, 1946. [Processed.]

WELLNER, C. A. (327)

Improving composition in young western white pine stands. Research Note 43 (NRM), 6 pp., tables. 1946. /Processed./

(328)

____

*Recent trends in silvicultural practice on the national forests in the western white pine type. Jour. Forestry 44(11): 942-944. 1946.

(329)

____

*Pole blight - a new disease of western white pine. Station Paper 8 (NRM), 3 pp., illus. 1947. /Processed./

(330)

____

*Forest protection in the silviculture of western white pine forests. Northwest Sci. 21(3): 109-112. 1947.

(331)

____

*Light intensity related to stand density in mature stands of the western white pine type. Jour. Forestry 46(1): 16-19. 1948.

(332)

____

*New disease threatens western white pine. Jour. Forestry 46: 294-295. 1948.

(333)

____

*Conservation influences of forest management. Idaho Conservation Source Book (Edited by Harry C. Caldwell.) Univ. of Idaho. pp. 93-98. 1951.

(334)

____

A vigor classification for mature western white pine trees in the Inland Empire. Research Note 110 (NRM), 3 pp. 1952. /Processed./

WELLNER, C. A., and M. W. FOILES (335)

What to see and where to find it on the Deception Creek Experimental Forest. Misc. Pub. 2 (NRM), 72 pp. 1951. /Processed./

WELLNER, C. A., and RALPH HANSEN (336)

Volume distribution in ponderosa pine trees. Research Note 17 (NRM), 2 pp., table. 1941. /Processed./

WELLNER, C. A., R. F. WATT, and A. E. HELMERS (337)

What to see and where to find it on the Priest River Experimental Forest. Misc. Pub. 3 (NRM), 86 pp. 1951. /Processed./

WELLNER, C. A., and A. L. ROE (338)

*Management practices for Christmas tree production. Station Paper 9 (NRM), 21 pp., illus. 1947. /Processed./

WHITE, W. W. (339)

*Growth after cutting on a western yellow pine timber sale area in Montana. Applied Forestry Notes 48 (NRM), 5 pp. 1924. /Processed./

WIKSTROM, JOHN H. (340)

Strip sample versus circular plots for measuring mortality. Research Note 120 (NRM), 1 p. 1953. /Processed./

WILSON, ALVIN K. (341)

Results of cutting overmature ponderosa pine in southern Idaho. Research Paper 28 (INT), 7 pp. 1951. /Processed./

_______________ (342)

An age-vigor tree classification for Douglas-fir in central Idaho. Jour. Forestry 50(12): 929-933. 1952.

_______________ (343)

Rodent damage in ponderosa pine plantations. Research Note 3 (INT), 2 pp. 1952. /Processed./

_______________ (344)

Tables for classifying age and vigor of Douglas-fir in central Idaho. Notebook material, unclas. 6 pp. 1952.

WILSON, ALVIN K. (345)

Storage and germination of Douglas-fir seed in central Idaho. Research Note 5 (INT), 3 pp. 1953. /Processed./

______________ (346)

Delineating ponderosa pine volume and site quality classes from aerial photographs. Research Paper 34, 10 pp., illus. 1954. /Processed./

WOOLFOLK, E. J. (347)

*Some observations on a white-tail deer winter range in Idaho. Research Note 116 (NRM), 4 pp. 1953. /Processed./

WRIGHT, ERNEST, and DONALD P. GRAHAM (348)

*Surveying for pole blight. Jour. Forestry 50(9): 680-682, illus. 1952.

ZACH, LAWRENCE W. (349)

The application of sample log scaling in Region 1. Research Note 31 (NRM), 10 pp. 1943. /Processed./

ZON, RAPHAEL (350)

*Seed production of western white pine. U. S. Dept. Agr. Bull. 210, 15 pp. 1915.

Subject Index

Title No.

Aerial photography.. 346
Afforestation (see Silviculture)
Analyses, problem 277
Animals (see Damage and protection, Ecology)

Bark (see Growth)
Bibliographies 254, 280

Classification, tree......................... 7, 246, 334, 342, 344
Climate, effects of, factors of (see Damage and protection, Ecology)
Cones (see Seed)
Control measures (see Damage and protection, Silviculture)
Conversion, factors of.................................... 238
Cover type
    Classifications..................................... 116, 242
    Distributions.................. 17, 20, 116, 151, 167, 168, 178
    Successions (see also Ecology)...17, 30, 131, 152, 170, 177, 188
        234, 259, 312
Cutting cycles.. 244
Cutting methods (see Silviculture)

Damage and protection (see also Ecology)
    Birds...52
    Climate................................146, 154, 268, 308
    Disease...........71, 78, 98, 107, 147, 155, 202, 221, 223, 224
        225, 226, 233, 276, 322, 325, 329, 332, 348
    Fire...... .... 11, 45, 46, 92, 102
    General... 330
    Insects 81, 82, 83, 91, 136, 231
    Logging.....................................136, 205, 227
    Mammals..........1, 2, 3, 4, 23, 52, 59, 63, 260, 269, 271, 343
Defect (see Damage and protection)
Dendrology.. 74
Diameter (see Growth)
Disease (see Damage and protection, Ecology)
Distribution (see Cover type)

Entomology (see Damage and protection, Ecology)
Ecology
    Biotic factors
        Birds... 52
        Competition..........30, 80, 151, 152, 155, 190, 232, 298, 302
        Disease...............................71, 78, 233, 329
        Insects.......................... 81, 82, 83, 91, 151, 231
        Mammals.............1, 2, 3, 4, 23, 52, 63, 260, 269, 271, 347

Title No.

- Climatic factors
  - Atmosphere 103
  - Fire 92, 177, 186, 283
  - General 178
  - Light 326, 331
  - Moisture 101, 105, 143, 145, 164, 216, 219
  - Temperature 146, 154
- Edaphic factors 21, 112, 143, 220, 283
- Forests, effects of 42, 44, 47, 162, 165, 296
- General 17, 37, 121, 131, 148, 149, 158, 172, 175, 179, 201, 217
- Physiographic factors 295
- Species, descriptions of 53, 54, 55, 79, 148, 158

Economic aspects 68, 69, 77, 84, 99, 120, 133, 173, 193, 204, 240, 257

Erosion (see Watershed management)

Experimental forests
- Guides to, descriptions of 75, 335, 337

Fire (see Damage and protection, Ecology)

Forestry, general 144, 333

Forests
- General 214
- National 24, 25

Genetics
- Breeding 26, 274
- Exotics 140, 317
- General 270, 275
- Inheritance, origin 19, 140, 321
- Selection 97

Grading
- Logs 13
- Trees 13

Grazing (see Damage and protection, Ecology)

Growth (see also Yield tables)
- Bark 87
- Basal area 307
- Diameter 202
- Height 38, 145
- Response to release 16, 60, 76, 108, 142, 190, 248, 305, 339
- Root (see also Physiology) 301
- Volume
  - Board feet 43, 51, 76, 88, 137, 150, 160, 206, 207, 208, 243, 245, 247, 249, 250, 251, 307, 309, 341
  - Cubic feet 51, 88, 239, 307, 309

Title No.

Harvest cutting (see Silviculture)
Height (see Growth)

Insects (see Ecology)
Instruments, tools, forestry....56, 278

Light (see Ecology)
Logging
    Costs....315
    Damage (see Damage and protection)
    General....8, 53, 313

Management, forest
    General....14, 68, 69, 71, 191, 314, 320
    Plans....20, 183, 221, 338
    Relation to watershed protection....183
Marking (see Silviculture)
Methods, techniques....57, 64, 65, 73, 98, 109, 111, 115, 154, 156, 159, 174, 229, 282, 340
Methods of cutting (see Silviculture)
Mistletoe (see Damage and protection, Ecology)
Monographs....184, 188, 320
Mortality
    Pole....311
    Sawtimber....135, 222, 341

Pathology (see Damage and protection)
Physiology
    Conduction....149, 156
    Growth....127
        Herbicides....80, 93, 94, 141, 284, 285, 291, 304
        Seeds....215, 232
    Histology....236, 237
    Roots....301
    Transpiration....176, 219
Planting (see Silviculture)
Products
    Other....133, 255, 338
    Plywood....15
    Poles....14
    Pulpwood....62
Protection (see Damage and protection)
Pruning (see Silviculture)

Reforestation (see Silviculture)
Regeneration (see Silviculture)
Response to release (see Growth)
Rodents (see Ecology)
Roots (see Physiology)

Title No.

- Sampling
  - Products ... 209
  - Stands ... 340
  - Trees ... 209, 210
- Scaling ... 27, 35, 241, 349
- Seed
  - Characteristics ... 61, 166, 192
  - Collection ... 215
  - Crops
    - Periodicity ... 34
  - Destruction (see Damage and protection)
  - Development (see Physiology)
  - Dissemination ... 33, 272, 273
  - Production ... 197, 319, 350
  - Storage ... 279, 345
  - Viability ... 61, 89, 118, 157, 159, 161, 174, 258, 279, 288, 289, 290, 345
- Seeding (see Silviculture)
- Silvics (see Ecology)
- Silviculture
  - General ... 113, 325, 328
  - Guides ... 72, 134, 186, 187, 188, 226, 281, 296, 315, 318
  - Intermediate cuttings
    - Girdling ... 39, 129, 218
    - Improvement cutting ... 120
    - Poisoning ... 93, 94
    - Pruning ... 66, 123, 124, 127, 132, 142
    - Thinning ... 65, 67, 86, 142, 186
    - Weeding, cleaning ... 67, 323, 327
  - Marking ... 72, 189, 318
  - Reproduction methods
    - Clear cutting ... 9
      - Regeneration, artificial
        - Nursery practice ... 36, 40, 141, 147, 154, 284, 285, 286, 287, 288, 289, 290, 291, 293, 297, 299, 300, 301, 303, 304
        - Planting ... 22, 57, 64, 140, 143, 153, 203, 230, 261, 263, 292, 295, 296, 298, 299, 302
        - Seeding ... 57, 95, 96, 125, 126, 128, 130, 182, 211, 212, 213, 253, 261, 262, 264, 265, 266, 267, 294
      - Regeneration, natural ... 18, 21, 22, 31, 32, 79, 110, 118, 122, 161, 163, 171, 175, 201, 252, 256
    - Seed tree ... 122, 341
    - Selection ... 8, 10, 12, 102, 207, 235, 273, 341
    - Shelterwood ... 122
  - Slash disposal ... 32, 41, 70, 84, 85, 90, 100, 104, 110, 138, 139, 169, 180, 181, 185, 195, 196, 198, 199, 200

Title No.

Site
    Index..310
    Quality..112
Slash disposal (see Silviculture)
Snowthrow, snowbreak (see Damage and protection)
Soil (see Ecology)
Stand improvement (see Silviculture)
Stocking and density.........................29, 50, 58, 111, 114, 115
    119, 194, 306, 307, 324
Succession (see Cover type)

Techniques (see Methods)
Thinning (see Silviculture)
Timber stand improvement (see Silviculture)
Tools (see Instruments)
Type (see Cover type)

Utilization (see also Products)............................14, 15, 228

Volume tables
    Board foot....................................5, 6, 28, 119, 336
    Cubic foot...48, 239

Watershed management
    Fire, effects of..45
Wildlife (see Damage and protection, Ecology)
Wind damage (see Damage and protection)
Wood technology.....................................236, 237

Yield
    Tables
        Board foot...................................49, 119, 316
        Cubic foot...239
        General...106, 117
        Stand..316